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| Application No. | Applicant(s)    |
|-----------------|-----------------|
| 10/786,367      | NAKAJIMA ET AL. |
| Examiner        | Art Unit        |
| Donald Loney    | 1772            |

| / | Rejected | ı | (Through numeral)<br>Cancelled |
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| = | Allowed  | + | Restricted                     |

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| Cla                    | im             |          |              |                     | Dat     | e        |                 |                   |          |          | Clai     | m        |          |          |           |          | ate       |          |              |         |          |   | CI    | aim        |            |                 |          |          | Date     | _        |              | _        |           |
|------------------------|----------------|----------|--------------|---------------------|---------|----------|-----------------|-------------------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|----------|--------------|---------|----------|---|-------|------------|------------|-----------------|----------|----------|----------|----------|--------------|----------|-----------|
| _                      | <u> </u>       | 上        | 5/2/5        |                     |         |          |                 |                   |          | _        | _        | 區        |          |          |           |          |           |          |              |         |          |   | _     | al         |            |                 |          |          |          |          | ĺ            |          |           |
| Final                  | Original       | 2105     | 13           |                     |         |          | H               | H                 |          | 3        | <u> </u> | Original |          |          |           |          |           |          |              |         |          |   | Final | Original   |            |                 |          |          |          |          |              |          | -         |
| ш.                     | ō              | 05       | 5            |                     |         |          |                 |                   |          | "        | ۱ ۱      | ō        |          | 1        |           |          | - [       | l        |              |         | 111      |   | ш     | ō          |            |                 |          |          |          |          | - 1          |          |           |
|                        | 1              | -        | $\vdash$     |                     | ╁       | +        | H               | H                 |          | $\vdash$ | $\dashv$ | 51       |          | -        | -         |          | -         | $\dashv$ | +            |         | -        |   | -     | 101        |            | Н               |          | -        | $\dashv$ | $\dashv$ | -            | $\dashv$ | $\dashv$  |
|                        | 4              | ╁╴       | Н            |                     | $\top$  | $\vdash$ | H               | $\forall$         | $\dashv$ |          | <u> </u> | 52       |          | _        | 1         |          | $\dashv$  | $\dashv$ | $\top$       | +       | ١.       |   |       | 102        | Т          | Н               |          | $\neg$   | $\neg$   |          | 一            | $\dashv$ | $\neg$    |
|                        | 3              | ╁        | Т            |                     |         | T        |                 | Ħ                 | ╗        |          | T        | 53       |          |          | T         |          |           | 1        | _            | _       | 1        |   |       | 103        |            |                 |          |          | $\neg$   |          | 寸            | $\dashv$ |           |
|                        | 4              |          |              |                     |         |          |                 |                   |          |          |          | 54       |          |          |           |          |           |          |              |         |          |   |       | 104        |            |                 |          |          |          |          |              |          |           |
|                        | 4              |          |              |                     |         |          |                 |                   |          |          |          | 55       |          |          |           |          |           | $\Box$   | $\perp$      |         |          |   |       | 105        |            |                 |          |          |          |          |              |          |           |
|                        | 6              | ÷        | Ψ,           |                     |         |          |                 | Ш                 | 4        | L        |          | 56       |          |          | _         |          |           | 4        | _            |         | 4        |   |       | 106        |            | Ш               |          |          |          |          |              | _        |           |
|                        | 7              | ÷        | ¥            | -                   |         | -        |                 | $\vdash$          |          | <u> </u> | -        | 57       | $\dashv$ | _        |           |          | -         | +        |              | -       | -        |   |       | 107        | <u> </u>   | Ш               | $\Box$   |          |          | _        |              | $\dashv$ | _         |
|                        | 8              |          | 3            |                     | +-      | +        | Н               | $\vdash$          |          |          | -        | 58<br>59 |          | -        | -         | $\dashv$ | $\dashv$  | +        | +            | +       | -        |   |       | 108        | H          | Н               |          |          | -        |          | -            | $\dashv$ | -         |
| -                      | 9              | ÷        | ×            |                     |         | -        | Н               | H                 |          | $\vdash$ | +        | 60       | $\dashv$ | _        | -         | $\dashv$ | $\dashv$  | $\dashv$ | +            | +       | -        |   | -     | 109<br>110 |            |                 |          | $\vdash$ |          |          |              | $\dashv$ | $\dashv$  |
| -                      | 1D             | ┼-       | -            | $\vdash$            | +       | +        | $\vdash$        | $\vdash \vdash$   |          | $\vdash$ |          | 61       |          |          |           |          |           | $\dashv$ | +            | +       | $\dashv$ |   |       | 111        | H          | Н               | $\vdash$ |          | Н        | $\vdash$ | $\dashv$     | $\dashv$ | $\dashv$  |
| $\vdash$               | 12             | $\vdash$ | Н            | $\vdash$            | +       | +        | $\vdash$        | $\vdash$          | $\dashv$ | $\vdash$ |          | 62       | $\dashv$ | _        | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ | +            | +       | - ::     |   |       | 112        |            | H               | $\vdash$ | $\vdash$ |          |          |              | $\dashv$ | $\dashv$  |
|                        | 13             | =        | Ν            | $\vdash$            | +       | T        |                 | $\forall$         | $\dashv$ | $\vdash$ | $\dashv$ | 63       |          |          |           |          |           | 1        | $\dashv$     | +       | 1        |   |       | 113        | m          | -               |          | Н        |          | Н        | $\exists$    | $\dashv$ | $\dashv$  |
|                        | 14             | ÷        | 10           |                     |         | Τ        |                 |                   |          |          |          | 64       |          |          |           |          | 一         | 丁        |              | ╛       | 7        |   |       | 114        |            |                 |          |          |          |          |              | 一        | $\exists$ |
|                        | 15             | +        | R<br>N       |                     | 1       |          |                 |                   |          |          |          | 65       |          |          |           |          |           |          |              |         |          |   |       | 115        |            |                 |          |          |          |          |              | 二        | コ         |
|                        | 16<br>17       |          |              |                     |         |          |                 |                   |          |          | $\Box$   | 66       |          |          |           |          |           | $\Box$   | $oxed{\Box}$ | $\Box$  |          |   |       | 116        |            |                 |          |          |          |          |              |          |           |
|                        | 17             | L        |              |                     |         | $\perp$  |                 | Ш                 | _        | L        |          | 67       | _        |          | _         |          | _         | _        |              | $\perp$ | _        |   |       | 117        | _          |                 |          |          |          |          | _            | _        |           |
|                        | 18             | ļ        |              |                     | $\bot$  | 1        | Ш               | Н                 | 4        | <u> </u> | $\perp$  | 68       | _        | _        | _         | _        | _         | _        | 4            | $\perp$ | 4"       |   |       | 118        | lacksquare |                 |          |          |          |          | _            | $\dashv$ | _         |
|                        | 18<br>19<br>20 | ┡        | $\vdash$     | $\perp$             | +       | $\vdash$ | $\vdash$        | $\dashv$          |          | <u> </u> |          | 69       |          |          |           |          |           | +        | +            | +       | 4        |   |       | 119        | L          | Ш               | -        |          |          |          |              | -        | 4         |
| $\vdash$               | <b>2</b> 1     | ┝        | $\vdash$     | +                   | +       | ╀        | $\vdash$        | $\dashv$          |          | -        | -        | 70<br>71 | $\dashv$ |          |           |          |           | $\dashv$ | +            | +       | 4        |   |       | 120<br>121 | -          | Н               | $\dashv$ | -        | $\dashv$ | -        | -            |          | $\dashv$  |
| $\vdash$               | <b>2</b> 12    | -        |              | +                   | ╁       | ╁        | $\vdash$        | $\vdash$          | $\dashv$ | -        | +        | 72       |          | _        | $\dashv$  | -        | $\dashv$  | $\dashv$ | +            | +       | - ::     |   |       | 122        | $\vdash$   | Н               | $\vdash$ | $\dashv$ |          | -        |              | ╗        | $\dashv$  |
|                        | #              | ┢        | $\vdash$     |                     | +       | ╁        | $\vdash$        | $\vdash$          |          | $\vdash$ | $\dashv$ | 73       | $\dashv$ |          | $\dashv$  | $\dashv$ | $\dashv$  | $\dashv$ | +            | +       | -        |   |       | 123        | -          | Н               |          |          | $\dashv$ |          | -            | $\dashv$ |           |
| $\vdash$               | 23<br>24       | ╁        | $\vdash$     | $\vdash$            | +-      | ╁╴       | Н               | $\vdash$          |          | -        | $\dashv$ | 74       | _        | -        | -         |          |           |          | +            | +       | $\dashv$ |   |       | 124        | $\vdash$   | Н               |          | $\dashv$ |          | $\dashv$ | <del>-</del> | $\dashv$ | $\dashv$  |
|                        | 25             | 4        | N            |                     | 1       | T        |                 | $\Box$            |          |          | _        | 75       |          |          | T         |          |           | $\dashv$ | $\top$       | $\top$  | ١.       |   |       | 125        |            |                 |          |          |          |          |              | ヿ        | ヿ         |
|                        | 26             | ÷        | 2<br>2<br>2  |                     | _       | T        |                 | П                 |          | Г        |          | 76       |          |          | $\exists$ | $\neg$   |           |          |              |         | 7        |   |       | 126        |            |                 |          |          |          |          | Ť            | ヿ        | $\neg$    |
|                        | 27             | ÷        | N            |                     |         |          |                 |                   |          |          |          | 77       |          |          |           |          | 1         |          |              |         |          |   |       | 127        |            |                 |          |          |          |          |              |          |           |
|                        | 28             |          |              |                     |         |          |                 |                   |          |          |          | 78       |          |          |           |          |           |          |              |         |          |   |       | 128        |            |                 |          |          |          |          |              |          |           |
|                        | 29             | ╙        |              |                     |         | $oxed{}$ | Щ               | $\sqcup$          |          | _        |          | 79       |          | _        |           |          |           | _        | $\perp$      | $\perp$ | 4        |   |       | 129        | Ш          | Ш               |          |          | _        | _        |              | _        | _         |
|                        | 30             | _        | _            |                     | $\bot$  |          |                 | $\sqcup$          |          | <u> </u> |          | 80       |          | $\dashv$ | _         | _        | _         | $\dashv$ | 4            | _       | 4        |   |       | 130        | _          | _               | _        |          | _        |          |              | _        |           |
|                        | 31             | $\vdash$ | $\vdash$     | $\vdash$            | +       | ╁        | $\vdash \vdash$ | $\vdash \vdash$   | -        | -        |          | 81<br>82 |          | $\dashv$ |           |          | $\dashv$  | +        | +            | +       | 4        |   |       | 131        |            | Н               |          |          | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$  |
|                        | 32<br>33       | $\vdash$ | -            | -+                  | +-      | ╁╌       | ├╌┤             | -+                | -        | -        |          | 83       | -        |          |           | -        |           | +        | +            | +       | -        | ŀ |       | 132<br>133 | H          | H               |          | Н        | $\dashv$ | $\dashv$ | $\dashv$     |          | $\dashv$  |
| ┝┈                     | 34             | $\vdash$ | -            | +                   | +       | +-       | $\vdash$        |                   | -        | -        |          | 84       | -        |          |           |          |           | +        | +            | +       | $\dashv$ | ŀ | -     | 134        | $\vdash$   | Н               |          |          | $\dashv$ |          | ᅱ            | $\dashv$ | $\dashv$  |
| -                      | 35             | $\vdash$ | $\vdash$     | $\vdash$            | +       | $\vdash$ | H               | $\vdash \uparrow$ | -        | -        | 十        | 85       | -        | $\dashv$ | $\dashv$  | •        | $\dashv$  | $\dashv$ | +            | +       | 1        | H |       | 135        | $\vdash$   | $\dashv$        | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | -+           | $\dashv$ | 一         |
|                        | 36             | † · · ·  |              |                     | +       | †        |                 | Ħ                 | 1        | $\vdash$ | 7        | 86       |          | $\dashv$ | 1         |          | T         | +        |              | _       | 1        | ı |       | 136        |            | Н               |          | $\vdash$ | $\dashv$ | $\Box$   | -1           | 一        | $\dashv$  |
|                        | 37             |          |              |                     |         |          |                 |                   |          |          |          | 87       |          | 丁        |           |          |           | $\top$   | $\top$       | 丁       | 7        | ı |       | 137        |            |                 |          |          |          |          | T            | $\neg$   | $\neg$    |
|                        | 38             |          |              |                     |         |          |                 |                   |          |          | T        | 88       |          |          |           |          |           |          |              | I       |          |   |       | 138        |            |                 |          |          |          |          |              |          |           |
|                        | 39             |          |              |                     |         |          |                 |                   |          |          |          | 89       |          |          |           |          |           |          |              |         |          |   |       | 139        |            |                 |          |          |          |          |              |          |           |
|                        | 40             |          | $oxed{\Box}$ |                     | $\perp$ |          | Ш               |                   | _        | L        |          | 90       | $\Box$   |          | $\Box$    | ]        | $\perp$ I | _        |              |         | ╝        |   |       | 140        | Ш          | $\Box$          |          |          |          |          | [            | $\Box$   | $\Box$    |
| <u> </u>               | 41             | _        | lacksquare   | $\sqcup \downarrow$ | $\bot$  | $\perp$  | $\sqcup$        | $\sqcup$          | _        | $\vdash$ |          | 91       | _        | _        | _         | _        | _         | $\dashv$ | $\perp$      | $\perp$ | 4        |   |       | 141        | L.         | Щ               |          | Щ        | _        | Щ        | 4            | _        | _         |
|                        | 42             | <u> </u> | _            |                     | 4-      | ┼        | $\vdash \vdash$ | $\dashv$          | -        | <u> </u> |          | 92       | 4        | _        | _         | _        | -         | -        |              | +       | 4        | ١ |       | 142        | <u> </u>   | Щ               | _        |          |          |          | 4            | $\dashv$ | _         |
| $\vdash$               | 43             | ├-       | -            |                     | +       | ┼-       | -               |                   |          | -        |          | 93<br>94 | $\dashv$ | $\dashv$ |           |          |           | +        | -            | -       | 4        |   |       | 143        | $\vdash$   | $\vdash \vdash$ |          |          |          |          | _            | $\dashv$ | 4         |
|                        | 44<br>45       | -        | H            | +                   | +       | $\vdash$ | $\vdash$        | $\vdash$          | -        | $\vdash$ |          | 94       | $\dashv$ | $\dashv$ | $\dashv$  | -        | $\dashv$  | +        | +            | +       | +        | ŀ |       | 144<br>145 | _          | $\vdash \vdash$ |          | $\vdash$ |          |          |              | $\dashv$ |           |
|                        | 46             | $\vdash$ | $\vdash$     | +                   | +       | +        | $\vdash \vdash$ | $\vdash$          | -        | $\vdash$ |          | 96       | $\dashv$ |          |           | $\dashv$ |           | $\dashv$ | +            | +       | $\dashv$ | ŀ | _     | 146        |            | $\vdash$        | -        | -        | $\dashv$ | $\vdash$ | $\dashv$     | $\dashv$ | ᅱ         |
| $\vdash \vdash \vdash$ | 47             | _        | Н            | $\dashv$            | +       |          | H               | $\dashv$          | $\dashv$ | $\vdash$ |          | 97       | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | ᅱ         | $\dashv$ | +            | +       | $\dashv$ | H |       | 147        |            | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ |          | -            | $\dashv$ | $\dashv$  |
| $\vdash$               | 48             |          | -            | $\dashv$            | +       | $\vdash$ | H               | $\dashv$          | $\dashv$ | -        |          | 98       | $\dashv$ | 一        | 7         | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$     | +       | $\dashv$ | H |       | 148        | Н          | Н               | 一        | $\dashv$ | -        | $\dashv$ | $\dashv$     | $\dashv$ | ᅱ         |
|                        | 49             | Г        | Т            | $\top$              | $\top$  |          | П               |                   | 7        |          | $\top$   | 99       |          | 7        | 7         | 寸        | $\neg$    | $\top$   | $\top$       | $\top$  | 1        | ı |       | 149        |            | $\dashv$        |          | $\neg$   |          |          | _            | $\dashv$ | ᅥ         |
|                        | 50             |          |              |                     |         |          |                 |                   |          |          |          | 100      |          |          |           | ヿ        |           |          |              |         |          |   |       | 150        |            |                 |          |          |          |          |              | 寸        |           |